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INTERNATIONAL PRELIMINARY EXAMINATION REPORT
(PCT Article 36 and Rule 70)

Applicant's or agent's file reference HJFI20022037	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/PEA/416)	
International application No. PCT/FI 03/00853	International filing date (day/month/year) 11.11.2003	Priority date (day/month/year) 15.11.2002
International Patent Classification (IPC) or both national classification and IPC B65H18/10		
Applicant METSO PAPER, INC. et al.		

<ol style="list-style-type: none"> 1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 2. This REPORT consists of a total of 5 sheets, including this cover sheet. <p><input type="checkbox"/> This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of sheets.</p> 3. This report contains indications relating to the following items: <ul style="list-style-type: none"> I <input checked="" type="checkbox"/> Basis of the opinion II <input type="checkbox"/> Priority III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV <input type="checkbox"/> Lack of unity of invention V <input checked="" type="checkbox"/> Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI <input type="checkbox"/> Certain documents cited VII <input type="checkbox"/> Certain defects in the international application VIII <input type="checkbox"/> Certain observations on the international application

Date of submission of the demand 03.06.2004	Date of completion of this report 11.10.2004
Name and mailing address of the International preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399- 4465	Authorized Officer Bonvin, C Telephone No. +49 89 2399-2056 

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. PCT/FI 03/00853

I. Basis of the report

1. With regard to the **elements** of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)*):

Description, Pages

1-6 as originally filed

Claims, Numbers

1-10 as originally filed

Drawings, Sheets

1/3-3/3 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- the language of publication of the international application (under Rule 48.3(b)).
- the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- contained in the international application in written form.
- filed together with the international application in computer readable form.
- furnished subsequently to this Authority in written form.
- furnished subsequently to this Authority in computer readable form.
- The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- the description, pages:
- the claims, Nos.:
- the drawings, sheets:

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5. This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).
(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)
6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims	1-10
	No: Claims	
Inventive step (IS)	Yes: Claims	1-10
	No: Claims	
Industrial applicability (IA)	Yes: Claims	1-10
	No: Claims	

2. Citations and explanations

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1: Claim 1

The present invention is starting from a generally known core locking device according to the preamble of claim 1 (see the following point 3).

Starting from said known core locking device, an essential problem of the present invention is to provide a core locking device in which the changing of the position of the core locking device, as winding progresses, does not cause winding problems nor a force acting on the centre of the roll.

The problem is especially solved by the fact that the device comprises an actuator to produce a counterforce for the force caused by the mass of the core locking device in its changed position as winding progresses.

None of the cited documents suggests to produce such a counterforce varying in relation with the changed position of the core locking device. Especially, in GB-A-841 305 (D1) it is only suggested to provide a counterweight 5 to counter balance the weight of an arm 3a pivotally supported carrying at its free end clamping pin 1 engaging within an open end of a winding core of a roll to be wound. However, in D1 it is not suggested to vary said counterforce as winding progresses. Indeed, in all embodiments shown in D1 it does not appear that the core locking device causes, as winding progresses, the additional force on the center of the roll mentioned here above with regard to the problem posed in the present application.

Therefore, the locking device according to claim is not obviously derivable from the cited documents.

Thus, the subject-matter of claim 1 is new and involves an inventive step.

2. Dependent claims 2 - 10

Claims 2 - 10 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

3. Formal comments

For clarity and also correct delimiting with regard to the embodiment shown in figure 4 of D1 the preamble of claim 1 should have been completed before the term "characterized" as it follows:

"the core locking device (17) moving with the centre (18) of the roll (10) being formed forwards on the slide (16), so that the core locking device (17) will gradually be an angle (a) with respect to the slide (16), with the result that a force is produced in the centre (18) of the roll (10) because of the weight of the core locking device (17)". (see page 4, last line, and page 5, first paragraph)
